

PTO 19 OCT 2004

INTERNATIONAL SEARCH REPORT

PCT/IB 03/01432

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04R5/02 A45F5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04R A45F H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 690 598 A (SONY CORP) 3 January 1996 (1996-01-03)	1,2, 12-14 4-6,11
Y	abstract page 1, line 13 - line 16 page 3, line 35 - line 51 figure 2	
Y	US 5 774 338 A (WESSLING III FRANCIS CHRISTOPH) 30 June 1998 (1998-06-30) abstract column 1, line 18 - line 46 column 3, line 21 - line 38 column 8, line 40 - line 64 claims 1-3,5,6,10 figure 1	4-6,11

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

12 August 2003

Date of mailing of the international search report

22/08/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>EP 1 073 030 A (AREA 52 CONSULTING S L) 31 January 2001 (2001-01-31)</p> <p>abstract column 2, line 8 - line 24 column 2, line 54 -column 3, line 4 column 3, line 18 - line 34 figure 1</p>	<p>1-3, 7-10, 12-14</p>
A	<p>US 4 589 134 A (WALDRON MICHAEL J) 13 May 1986 (1986-05-13) the whole document</p>	<p>1-14</p>

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PCT/IB 03/01432

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0690598	A	03-01-1996	EP	0690598 A2	03-01-1996
			JP	8079321 A	22-03-1996
			US	5602669 A	11-02-1997
US 5774338	A	30-06-1998	AU	4500897 A	14-04-1998
			WO	9812618 A2	26-03-1998
EP 1073030	A	31-01-2001	ES	2168203 A1	01-06-2002
			CA	2314741 A1	30-01-2001
			EP	1073030 A2	31-01-2001
US 4589134	A	13-05-1986	NONE		